## **EAST Search History**

## **EAST Search History (Prior Art)**

| Ref<br># | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|----------|------|---|---|---------------------|---------|---------------------|
| L1       | 33   | (148/437-438.ccls.<br>420/528,529,531,537,538,540,546,547.ccls.) and (fin<br>same (Mn manganese) same tube) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR                  | ON      | 2010/04/25<br>17:30 |
| L2       | 36   | (428/654.ccls.) and (fin same (Mn manganese) same tube)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR                  | ON      | 2010/04/25<br>17:30 |
| L3       | 26   | (428/654.ccls.) and (fin with (Mn manganese)) and (tube with (Mn manganese))                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR                  | ON      | 2010/04/25<br>17:30 |
| L4       | 34   | (165/134.1,180,905.ccls.) and (fin same (Mn<br>manganese) same tube)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR                  | ON      | 2010/04/25<br>17:33 |
| L5       | 20   | (165/133.ccls.) and (fin same (Mn manganese) same tube)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR                  | ON      | 2010/04/25<br>17:34 |
| S24      | 23   | ((NICHOLAS) near2 (PARSON)).INV.  | US-PGPUB;<br>USPAT                          | OR                  | ON      | 2010/04/25<br>15:37 |
| S25      | 27   | ((NICHOLAS) near2 (PARSON)).INV.  | EPO; JPO;<br>DERWENT                        | OR                  | ON      | 2010/04/25<br>15:37 |
| S26      | 34   | ((ALAN) near2 (GRAY)).INV.  | US-PGPUB;<br>USPAT                          | OR                  | ON      | 2010/04/25<br>15:37 |

| S27 | 30  | ((ALAN) near2 (CRAY)).INV.  | EPO; JPO;<br>DERWENT                        | OR | ON | 2010/04/25<br>15:37 |
|-----|-----|---|---|----|----|---------------------|
| S28 | 14  | ((PIERRE) near2 (MAROIS)).INV.  | US-PGPUB;<br>USPAT                          | OR | ON | 2010/04/25<br>15:37 |
| S29 | 16  | ((PIERRE) near2 (MAROIS)).INV.  | EPO; JPO;<br>DERWENT                        | OR | ON | 2010/04/25<br>15:37 |
| S30 | 3   | ((THIAGARAJAN) near2 (RAMANAN)).INV.  | US-PGPUB;<br>USPAT                          | OR | ON | 2010/04/25<br>15:37 |
| S31 | 1   | ((THIAGARAJAN) near2 (RAMANAN)).INV.  | EPO; JPO;<br>DERWENT                        | OR | ON | 2010/04/25<br>15:37 |
| S32 | 138 | S24 S25 S26 S27 S28 S29 S30 S31   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:37 |
| S33 | 21  | ("20020007881"   "3878871"   "4991647"   "5785776"<br>  "5906689"   "5976278"   "6284386"   "6391129"  <br>"6408938").PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:37 |
| S34 | 38  | fin same AA3003   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:37 |
| S35 | 15  | fin same (AA3003 3XXX) same (zn zinc) same (manganese Mn)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:37 |
| S36 | 22  | fin and ((AA3003 3XXX) same (zn zinc) same<br>(manganese Mn)) not \$35  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:37 |

| S37 | 37 | fin same "3003" same (zn zinc) same (manganese Mn)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
|-----|----|---|---|----|-----|---------------------|
| S38 | 32 | S37 not (S35 S36)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S39 | 67 | (heat adj exchang\$) and (tub\$ with (Mn manganese) with (Al aluminum)) and (fin with (AA3003 3xxx "3003" aluminum) with (Zn zinc) with (Mn manganese)) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S40 | 23 | (heat adj exchang\$) and (tub\$ with (Mn manganese) with (Al aluminum)) and (fin with (AA3003 3xxx "3003" aluminum) with (Zn zinc)) not S39             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S41 | 29 | S32 and homog\$   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S42 | 47 | (current amps microamps) and (S32 S33 S34 S35 S36 S37 S38 S39 S40 S41)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S43 | 2  | pct/ no02/00165   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |
| S44 | 3  | ("2002090031").PN.  | EPO;<br>DERWENT                             | OR | OFF | 2010/04/25<br>15:37 |
| S45 | 3  | (syslak and Gro and dag).inv.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON  | 2010/04/25<br>15:37 |

| S46 | 26  | ("2061921"   "3878871"   "3960208"   "4203490"  <br>"4209059"   "4317484"   "4410036"   "4412869"  <br>"4463061"   "4560625").PN. OR ("4991647").URPN. | US-PGPUB;<br>USPAT; USOCR                   | OR | ON | 2010/04/25<br>15:37 |
|-----|-----|--|---|----|----|---------------------|
| S47 | 336 | fin same (Mn manganese) same tube  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:54 |
| S49 | 302 | (fin same (Mn manganese) same tube) and (heat adjexchang\$)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:55 |
| S50 | 128 | (fin with (Mn manganese) with tube) and (heat adj<br>exchang\$)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2010/04/25<br>15:55 |

4/25/2010 5:58:37 PM

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